

GluA4 Antibody

Rabbit mAb Catalog # AP92132

Specification

GluA4 Antibody - Product Information

Application WB, FC
Primary Accession P48058
Reactivity Rat

Clonality Monoclonal

Other Names

AMPA4; GluA4; GluR4; GLUR4C; GLURD; Gria4;

Isotype Rabbit IgG
Host Rabbit
Calculated MW 100871 Da

GluA4 Antibody - Additional Information

Dilution WB~~1:1000

FC~~1:10~50
Purification Affinity-chrom

Purification Affinity-chromatography
Immunogen A synthesized peptide derived from human

GluA4

Description Ionotropic glutamate receptor. L-glutamate

acts as an excitatory neurotransmitter at many synapses in the central nervous system. Binding of the excitatory

system. Binding of the excitatory neurotransmitter L-glutamate induces a

conformation change, leading to the opening of the cation channel, and thereby

converts the chemical signal to an

electrical impulse.

Storage Condition and Buffer Rabbit IgG in phosphate buffered saline ,

pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid

freeze / thaw cycle.

GluA4 Antibody - Protein Information

Name GRIA4 {ECO:0000303|PubMed:29220673, ECO:0000312|HGNC:HGNC:4574}

Function

Ionotropic glutamate receptor that functions as a ligand- gated cation channel, gated by L-glutamate and glutamatergic agonists such as

alpha-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid (AMPA), quisqualic acid, and kainic acid (By similarity). L-glutamate acts as an excitatory neurotransmitter at many synapses in the central nervous system and plays an important role in fast excitatory synaptic transmission (By similarity).



Binding of the excitatory neurotransmitter L-glutamate induces a conformation change, leading to the opening of the cation channel, and thereby converts the chemical signal to an electrical impulse upon entry of monovalent and divalent cations such as sodium and calcium. The receptor then desensitizes rapidly and enters a transient inactive state, characterized by the presence of bound agonist (By similarity). In the presence of CACNG8, shows resensitization which is characterized by a delayed accumulation of current flux upon continued application of L-glutamate (PubMed:21172611).

Cellular Location

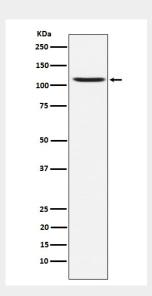
Cell membrane {ECO:0000250|UniProtKB:P19493}; Multi-pass membrane protein {ECO:0000250|UniProtKB:P19493} Postsynaptic cell membrane {ECO:0000250|UniProtKB:P19493}; Multi-pass membrane protein {ECO:0000250|UniProtKB:P19493}. Cell projection, dendrite {ECO:0000250|UniProtKB:P19493}. Postsynaptic cell membrane {ECO:0000250|UniProtKB:P42262}; Multi-pass membrane protein {ECO:0000250|UniProtKB:P42262}

GluA4 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GluA4 Antibody - Images



Western blot analysis of Ionotropic Glutamate receptor 4 expression in SH-SY5Y cell lysate.